

The **Chair of Structural and Functional Ceramics** focusses on **characterizing** the **electrical** and **mechanical** properties of ceramic based materials and components. New **processing** and **sintering** techniques are employed to tailor the **microstructure** and **architecture** of ceramic parts to enhance their damage resistance and lifetime performance.



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Processing and fabrication of ceramic parts

3D-Printing
Tape Casting
Spark Plasma Sintering

Microstructural characterization, testing and modelling of components

- microstructure
- fractography
- (piezo-) electric properties
- simulations
- mechanical properties
- physical properties